Terms used **open service gateway initiative** Found **29** of **201,062**

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1 Component-based development of Web-enabled eHome services

Michael Kirchhof, Sebastian Linz
September 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 5
**Publisher:** Springer-Verlag
Full text available: pdf(393.63 KB) Additional Information: full citation, abstract

In this paper we will take a look at the inside of connected homes, which build up complex IT systems. The building blocks of such systems are electronic devices, networks, and *services*, which empower the user to interact with his environment. Web-enabled eHome services offer functionality to the user by abstracting from devices and realize connectivity in three dimensions: (1) inner connectivity, (2) outer connectivity, and (3) integrative connectivity. Generations of Web-enabled eHome s ...

**Keywords**: Component-based development, OSGi, PowerArchitecture, Software engineering, eHome

2 Operating systems and adaptive applications (OSAA): Towards reliable OSGi framework and applications

Heejune Ahn, Hyukjun Oh, Chang Oan Sung
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
**Publisher:** ACM Press
Full text available: pdf(110.77 KB) Additional Information: full citation, abstract, references, index terms

Upcoming ubiquitous computing systems are required to operate in dynamic, diverse, unverified, and unpredictable operating environment. The OSGi (Open Service Gateway initiative) framework employs the service-oriented approach and the java classloader architecture for the runtime service deployment, that are well suited to the dynamic environment envisioned for home networking and ubiquitous computing. However, the current OSGi framework does not provide full reliability measures, especially for ...

**Keywords**: OSGi, proxy-based, reliability, service oriented architecture (SOA)

3 Autonomic computing: Functionality configuration for eHome systems

Ulrich Norbisrath, Christof Mosler
October 2006 **Proceedings of the 2006 conference of the Center for Advanced Studies on Collaborative research CASCON '06**

Terms used **Java Embedded Server** Found **194** of **201,062**

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Relevance scale

1 Java bytecode compression for low-end embedded systems

Lars Ræder Clausen, Ulrik Pagh Schultz, Charles Consel, Gilles Muller
May 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 3
**Publisher:** ACM Press
Full text available: pdf(241.04 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A program executing on a low-end embedded system, such as a smart-card, faces scarce memory resources and fixed execution time constraints. We demonstrate that factorization of common instruction sequences in Java bytecode allows the memory footprint to be reduced, on average, to 85% of its original size, with a minimal execution time penalty. While preserving Java compatibility, our solution requires only a few modifications which are straightforward to implement in any JVM used in a low-e ...

**Keywords**: Java bytecode, code compression, embedded systems

2 MOCA: a service framework for mobile computing devices

James Beck, Alain Gefflaut, Nayeem Islam
August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access MobiDe '99**
**Publisher:** ACM Press
Full text available: pdf(911.37 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: Java, component software, mobile device, service discovery, service framework

3 RTSJ issues: Extended portal: violating the assignment rule and enforcing the single parent rule

Pablo Basanta-Val, Marisol García-Valls, Iria Estevez-Ayres, Carlos Delgado-Kloos
October 2006 **Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems JTRES '06**
**Publisher:** ACM Press
Full text available: pdf(451.69 KB) Additional Information: full citation, abstract, references, index terms